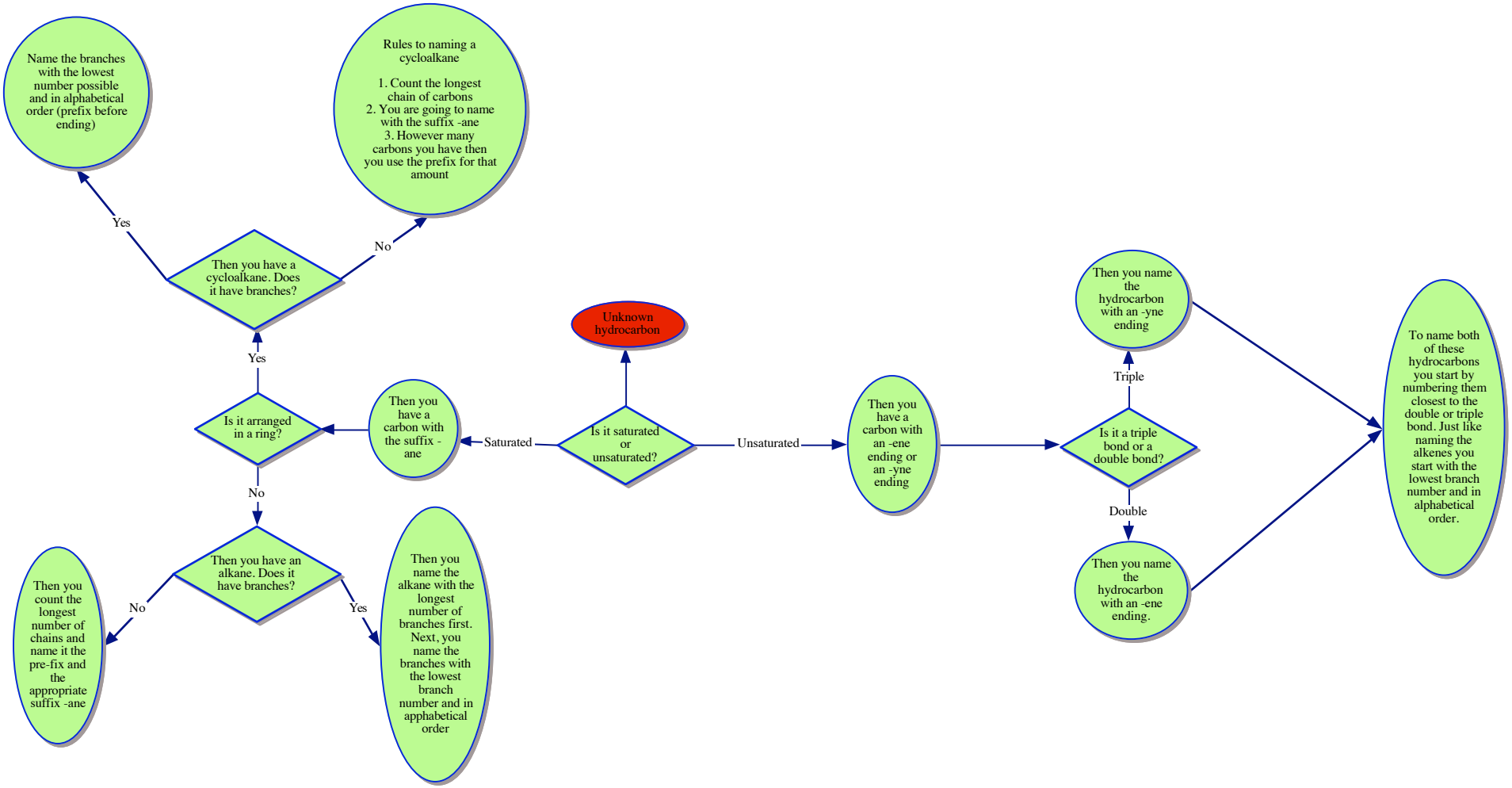
Name the branches with the lowest number possible and in alphabetical order (prefix before ending)
Rules to naming a cycloalkane
1. Count the longest chain of carbons
2. You are going to name with the suffix -ane
3. However many carbons you have then you use the prefix for that amount
Yes
No
Then you have a cycloalkane. Does it have branches?
Yes
Is it arranged in a ring?
Then you have a carbon with the suffix -ane
Saturated
Unknown hydrocarbon
Is it saturated or unsaturated?
Unsaturated
Then you have a carbon with an -ene ending or an -yne ending
Then you name the hydrocarbon with an -yne ending
Triple
Is it a triple bond or a double bond?
Double
Then you name the hydrocarbon with an -ene ending.
To name both of these hydrocarbons you start by numbering them closest to the double or triple bond. Just like naming the alkenes you start with the lowest branch number and in alphabetical order.
No
Then you have an alkane. Does it have branches?
No
Then you count the longest number of chains and name it the pre-fix and the appropriate suffix -ane
Yes
Then you name the alkane with the longest number of branches first. Next, you name the branches with the lowest branch number and in apphabetical order